

Lake Dunstan Trail Earthworks Mitigation Plan

Date: 14 Sept 2018

Refer to Southern Land plan T4303_P2 Rev C for distances and locations

METHODS TO ASSIST MITIGATION & RESTORATION OF LAKE DUNSTAN TRAIL EARTHWORKS

- A** Maximum 45 degree batter slopes (cut & fill) except solid rock which can be vertical
- B** Strip topsoil & organic layers, stockpile and respread over finished batters
- C** Narrow trail to 2m total bench from 2.5m
- D** Hydro seed cut and fill batters
- E** Hand seeding and fertilizer on cut and fill batters
- F** Stone walling on cut batters (non structural)
- G** Restore old/obsolete 4wd tracks

Section 1 - Bannockburn Inlet

Start	End	Distance	Reason for Mitigation	Mitigation							Additional Comments
				45 Deg	Topsoil	Narrow	Hydro	Hand Seed	Stone	Restore	
				A	B	C	D	E	F*	G	
450	720	270	Visually sensitive from adjoining built areas								Retaining wall section
2,550	2,630	80	Visually sensitive from adjoining built areas								Retaining wall section
3,010	3,100	90	Visually sensitive from adjoining built areas								Retaining wall section

WSMRA ZONE

9,800	9,950	150	Visually sensitive from Goldfields Monument								1.5m wide trail
10,000	10,400	400	Visually sensitive from Goldfields Monument								2m wide trail, fill batter stone walls where possible, pockets of mitigation planting

Section 2 - Cairnmuir Gully to Specularite Creek

Start	End	Distance		Mitigation							Comments
				45 Deg	Topsoil	Narrow	Hydro	Hand Seed	Stone	Restore	
				A	B	C	D	E	F*	G	
12,500	12,700	200	Not visually sensitive or visible from outside immediate area								
12,700	13,350	650	Switchbacks are visually dominant, not visible from outside immediate area								Use F on switchback batters
13,350	15,100	1,750	Not visually sensitive or visible from outside immediate area								
15,100	15,300	200	Switchbacks are visually dominant and partly visible from SH6								Use F on switchback batters
15,300	15,500	200									Existing 4wd track - no mitigation proposed
15,500	15,600	100	New fill batter slope will be visible from SH6								Realigned 4wd track using site sourced cut and fill
15,600	16,100	500									Existing 4wd track - no mitigation proposed
16,100	16,300	200	New trail on open face visible from SH6								
16,300	16,450	150									Existing 4wd track - no mitigation proposed
16,450	17,050	600	New trail on open face leading to gully visible from SH6								2m wide trail bench on approach to Specularite Creek

Section 3 - Specularite Creek to Halfway Hut Creek

Start	End	Distance		Mitigation							Comments
				45 Deg	Topsoil	Narrow	Hydro	Hand Seed	Stone	Restore	
				A	B	C	D	E	F*	G	
17,050	17,600	550									Existing 4wd track - no mitigation proposed
17,600	18,000	400	New trail into gully visible from SH6								Falcon Gully
18,000	18,400	400									Existing 4wd track - no mitigation proposed
18,400	18,550	150	New trail on gentle terrain visible from SH6								

WSMRA ZONE

18,550	19,000	450									Approach to sensitive section
19,000	20,500	1,500	Visually sensitive from SH8 & ONL								1.5m wide trail, stacked stoen wall on cut &/or fill where possible

Section 4 - Halfway Hut Creek to Hyde's Spur

Start	End	Distance		Mitigation							Comments
				45 Deg A	Topsoil B	Narrow C	Hydro D	Hand Seed E	Stone F*	Restore G	
ROUTE OPTION 1 - UP HALFWAY HUT CREEK											
20,500	20,700	200	New trail into gully, partly visible from SH6								Side slope to steep for A
20,700	21,500	800	New trail across gully face partly visible from SH6								Use F on switchback batters
ROUTE OPTION 2 - BRIDGE to 21,500 REJOIN											
20,500	21,500	1,000	New trail across open face visible from SH6								Use F on switchback batters
21,500	21,900	400	New trail high above SH6, fill batter visible from SH6								Trail location on gentle terrain minimises cut and fill batters Shady & steep but less visually sensitive, B & D appropriate
21,900	22,200	300	New trail only partly visible from SH6, steep sided gully								
22,200	22,700	500	New trail only partly visible from SH6, moderate slopes								
22,700	23,050	350	New trail high above SH6, fill batter visible from SH6								
23,050	23,300	250	New trail only partly visible from SH6, moderate slopes								
23,300	23,500	200	New trail high above SH6, fill batter visible from SH6								
23,500	24,200	700	New trail on gentle slopes, visible from SH6								Gentle terrain reduces cut and fill batters and has more topsoil
<i>WSMRA ZONE</i>											
26,600	27,000	400	New trail across rocky headland								Stacked stone walls in rocky area, hydro seed where soil available

Section 5 - South End

Start	End	Distance		Mitigation							Comments
				45 Deg A	Topsoil B	Narrow C	Hydro D	Hand Seed E	Stone F*	Restore G	
27,900	28,000	100	New trail near lake level visible from SH6								Keep trail as close & level to lake as practical
29,500	29,600	100	New trail near lake level visible from SH6								Keep trail as close & level to lake as practical